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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	2435.1
First Named Inventor or Application Identifier	DAVID CINCOTTA
Express Mail Label No.	EL146828065US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. <input type="checkbox"/> Fee Transmittal Form (Submit an original, and a duplicate for fee processing)	6. <input type="checkbox"/> Microfiche Computer Program (Appendix)
2. <input checked="" type="checkbox"/> Specification Total Pages <input type="text" value="42"/>	7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
3. <input checked="" type="checkbox"/> Drawings (35 USC 113) Total Sheets <input type="text" value="2"/>	a. <input type="checkbox"/> Computer Readable Copy
4. <input checked="" type="checkbox"/> Oath or Declaration Total Pages <input type="text" value="1"/>	b. <input type="checkbox"/> Paper Copy (identical to computer copy)
a. <input checked="" type="checkbox"/> Newly executed (original or copy)	c. <input type="checkbox"/> Statement verifying identity of above copies
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c. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below]	
i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed Statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	
5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4c is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4c, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.	
"Express Mail" mailing label number <u>EL146828065US</u> Date of Deposit <u>2/5/99</u> I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 <u>DAOLO NIEVA</u> (Typed or printed name of person mailing paper or fee) <u>DAOLO NIEVA</u> (Signature of person mailing paper or fee)	

ACCOMPANYING APPLICATION PARTS

8. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))	
9. <input type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee)	<input type="checkbox"/> Power of Attorney
10. <input type="checkbox"/> English Translation Document (if applicable)	
11. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449	<input type="checkbox"/> Copies of IDS Citations
12. <input type="checkbox"/> Preliminary Amendment	
13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)	
14. <input checked="" type="checkbox"/> Small Entity Statement(s)	<input type="checkbox"/> Statement filed in prior application Status still proper and desired
15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)	
16. <input type="checkbox"/> Other:	

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

<input type="checkbox"/> Continuation	<input type="checkbox"/> Divisional	<input type="checkbox"/> Continuation-in-part (CIP)	of prior application No. <u>1</u>
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18. CORRESPONDENCE ADDRESS

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Address			
City	State	Zip Code	
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CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS (37 CFR 1.16(c))	5-20 =	0	X \$ 18.00 =	\$ -0-
	INDEPENDENT CLAIMS (37 cfr 1.16(b))	3-3 =	0	X \$ 78.00 =	\$ -0-
	MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d))			\$260.00 =	\$ -0-
				BASIC FEE (37 CFR 1.16(a))	\$ 760.00
	Total of above Calculations =				\$ 760.00
	Reduction by 50% for filing by small entity (Note 37 CFR 1.9, 1.27, 1.28).				\$-380.00
	TOTAL =				\$ 380.00

19. Small entity status

- a. ☒ A Small entity statement is enclosed
- b. ☐ A small entity statement was filed in the prior nonprovisional application and such status is still proper and desired.
- c. ☐ Is no longer claimed.


20. ☒ A check in the amount of \$ 380.00 to cover the filing fee is enclosed.

21. ☒ A check in the amount of \$ 40.00 to cover the recordal fee is enclosed.

22. The Commissioner is hereby authorized to credit overpayments or charge the following fees to Deposit Account No. 06-1205:

- a. ☒ Fees required under 37 CFR 1.16.
- b. ☒ Fees required under 37 CFR 1.17.
- c. ☐ Fees required under 37 CFR 1.18.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

NAME	Michael P. Sandonato (35,345)
SIGNATURE	
DATE	February 5, 1999

A:2435UPA/jrl

Applicant or Patentee: David Cincotta Attorney's
Application or Patent No.: N/A Docket No.: 2435.1
Filed or Issued: Herewith
For: SYSTEM AND METHOD FOR PREPAYING FOR SERVICES OR GOODS TO BE CONSUMED AT A FUTURE DATE

STATEMENT CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27(c)) - SMALL BUSINESS CONCERN

I hereby state that I am

- ☐ the owner of the small business concern identified below:
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN CollegeNOW Company LLC
ADDRESS OF 356 Hillside Place Suite 2000, South Orange, NJ 07079-2903

I hereby state that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby state that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention, entitled SYSTEM AND METHOD FOR PREPAYING FOR SERVICES OR GOODS TO BE CONSUMED AT A FUTURE DATE

by inventor(s) David Cincotta
described in

- ☒ the specification filed herewith
☐ application no. _____, filed _____
☐ patent no. _____, issued _____

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). *NOTE: Separate statements are required from each named person, concern or organization having rights to the invention as to their status as small entities. (37 CFR 1.27)

NAME _____

ADDRESS _____

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

NAME _____

ADDRESS _____

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

NAME OF PERSON SIGNING David Cincotta

TITLE OF PERSON OTHER THAN OWNER President

ADDRESS OF PERSON SIGNING 356 Hillside Place, South Orange, NJ 07079-2903

SIGNATURE David E Cincotta DATE 4 Feb 1999

PATENT APPLICATION

2435.1

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- 1 -

TITLE

**SYSTEM AND METHOD FOR PREPAYING FOR SERVICES OR GOODS
TO BE CONSUMED AT A FUTURE DATE**

BACKGROUND OF THE INVENTION

5 Field of the Invention

This invention relates to the field of financial data
processing, and in particular relates to a data
processing system for administering a plan whereby
participants are able to prepay for goods and services
10 which will be delivered and consumed at a later date.

Description of the Related Art

There are many situations in which an individual or
group is certain or virtually certain that he, she or
15 it will be incurring at some future date a relatively
large expense in the connection with the purchase of
goods or services, but is uncertain as to the entity
from which the goods or services will be purchased. A
well-known example is a parent who is certain or
20 virtually certain that his or her child will be
attending college after graduating from high school,
but is of course uncertain as to the specific
institution that the child will attend. The cost of
funding a child's education represents a relatively
25 large expense, and a prudent family typically begins

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The most common known way of doing this is by setting aside a certain amount of money periodically (such as, for example, monthly), and investing that money, so that by the time the child is ready to attend college there will be enough money to finance the education.

This approach, however, has several drawbacks. To begin with, while it is relatively easy to ascertain what the tuitions are at various colleges and universities across the country at present, there is not an accurate method of predicting what tuitions will be by the time the child is ready to actually enroll, which may be five, ten, fifteen or more years into the future. Accordingly, it is very difficult for a parent to predict exactly how much money should be set aside.

Moreover, in order to minimize the amount of money that needs to be set aside but still end with a sum large enough to finance the child's education, many families choose relatively aggressive investment strategies for these savings, such as stocks, aggressive mutual funds and low grade bonds. Such investment strategies, however, are inherently risky, and may result in the child's total college savings portfolio being less than anticipated when the child is ready to attend college. If more conservative investment strategies are used, on the other hand, then more money will have to be set aside, creating an additional strain on the family's cash-flow. Further still, no matter what investment vehicles are chosen, the interest earned on the investments will be subject to taxation by the Federal, State and local governments. Such taxation further reduces the amount of money that ultimately will be in the child's portfolio when it will be needed, and/or

further increases the amount of money that the family will need to set aside.

- Several systems and methods have been suggested for
- 5 addressing these problems. For example, some states have enacted legislation which allows parents to deduct a certain amount of money from their taxable state income per year if that money is placed in a qualified tuition savings plan. In addition, the interest earned
- 10 on those savings may be tax exempt. These approaches, however, suffer from the same drawbacks as a standard savings plan, in that the money that the parents save is still subject to the inherent risks of the investment vehicles that are chosen. Also, such state
- 15 legislation does not and cannot provide that the amount of monies saved may be deducted from the parents' taxable federal income, which would of course have a far greater impact.
- 20 U.S. Patent Nos. 4,642,768 and 4,722,055, both to Roberts, describe an investment program which purports to provide a parent a future return adequate to pay the cost of a child's college education in return for a present investment determined on the basis of current
- 25 college cost data and projections of the rate of increase of college costs. In these patents, securities are selected that offer a rate of return that matches the expected increase in education costs. There is no guarantee, however, that the actual
- 30 increase in college costs will match the expected increase. Also, the return on the investments is still subject to taxation.

2025 RELEASE UNDER E.O. 14176

U.S. Patent Nos. 5,745,885 and 5,809,484, both to Mottola et al., describe a program in which the tuition of students accepted into the program is paid for by funds invested by investors, in return for an agreement

5 by the students to assign a percentage of their future income for a limited time period to the plan. This system, however, is merely a replacement for traditional student loan plans, such as the Stafford Loan program, the Perkins Loan program and the

10 Supplemental Loan program, and requires a student, after graduation, to pay back money that was provided. It does not at all provide a mechanism that allows a parent to fund a child's educational costs.

15 In recent years, pre-paid college tuition programs have come into being, whereby a parent can in the present pay for all or part of a child's educational costs, at the present tuition rate, and receive the actual educational services that have been paid for when the

20 child is old enough to attend college. The inherent problem with this approach, however, is that the parent is uncertain as to the particular institution that the child will be attending, since he or she will have no reliable way of gauging, particularly in the child's

25 early years, the institutions which the child will want to attend, and the institutions to which the child will gain admittance. A pre-paid tuition program that involves only a single university, therefore, has limited practical applicability.

30 In attempt to solve this problem, consortiums which include several colleges and universities have been proposed, such as the proposed Tuition Plan, Inc. ("TPI") consortium. Under the proposed TPI program,

35 parents may purchase "certificates" of various denominations, which certificates cover a guaranteed percentage of education at any member institution,

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SUMMARY OF THE INVENTION

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It is yet another object of the present invention to provide a system and method which determines a predicted total measure of services or goods that a aggregate of consumers will want from each of a plurality of specified providers.

In accordance with one aspect of the present invention, a method for allowing a plurality of participants to prepay for services or goods to be received at a later date from one of a plurality of specified providers is administered by an administering entity and includes the steps of executing contracts between the administering entity and each of the participants in which a contracting participant pays to the administering entity a cash amount and in return receives from the administering entity a promise to deliver at a future date a specified measure of services or goods, the services or goods to be provided by whichever of the specified providers the contracting participant selects; determining, for each of the providers, a predicted total measure of services or goods that will be required from that provider by the aggregate of the participants; and executing contracts between the administering entity and each of the providers in which the administering entity pays to a contracting provider a cash amount and in return receives from the contracting provider a promise to deliver a specified measure of services or goods.

In another aspect of the present invention, a financial data processing system for allowing a plurality of participants to prepay for services or goods to be received at a later date from one of a plurality of specified providers comprises means for storing data regarding a plurality of contracts executed between an administering entity and each of the participants in which a contracting participant paid to the

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administering entity a cash amount and in return
received from the administering entity a promise to
deliver at a future date a specified measure of
services or goods, the services or goods to be provided
5 by whichever of the specified providers the contracting
participant selects; means for determining, for each of
the providers, a predicted total measure of services or
goods that will be required from that provider by the
aggregate of the participants; and means for storing
10 data regarding a plurality of contracts executed
between the administering entity and each of the
providers in which the administering entity paid to a
contracting provider a cash amount and in return
received from the contracting provider a promise to
15 deliver a specified measure of services or goods.

In yet another aspect of the present invention a
financial data processing system for allowing a
plurality of participants to prepay for services or
20 goods to be received at a later date from one of a
plurality of specified providers, the choice of which
of the plurality of providers will deliver the services
or goods being made by a participant at the time the
goods and services are to be delivered, comprises a
25 machine-readable storage devices which stores data
indicating measures of services or goods for which each
participant has prepaid and measures of services or
goods which each provider has contracted to provide;
and a processing circuit for determining, for each of
30 the providers, a predicted total measure of services or
goods that will be required from that provider by the
aggregate of the participants.

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BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a block diagram illustrating one embodiment of hardware for implementing the present invention.

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Fig. 2 is a flow chart illustrating one embodiment of the determination process of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

10 A basic hardware configuration with which the present invention may be implemented is depicted schematically in Fig. 1. This configuration is a local area network ("LAN") which includes a plurality of individual workstations 10, a hub 20 and a file server 30. Each
15 workstation includes a CPU 1, a random access memory ("RAM") 2 and a storage device 3. The storage device 3 may comprise, for example, a floppy disk and drive, a hard disk and drive, a CD-ROM and drive, or the like, or any combination of the foregoing. Each work station
20 further includes one or more input devices such as a keyboard 4 or a mouse 5, and one or more output devices, such as a monitor 6 or a printer 7. Each workstation 10 communicates with a central file server 30 through the hub 20, in a manner that will be readily
25 apparent to those skilled in the art of networking.

In operation, a software program implementing the present invention may be stored in the storage device 3 of each workstation 10, so that the CPU 1 of each
30 workstation 10 may execute the program when so directed by an operator. Alternatively, the software program, or a portion thereof, may be stored in the file server 30. Preferably, all data records that the software program creates (to be discussed in greater detail
35 below) are stored in the file server 30, so that those data records may be accessed by any of the workstations 10. The file server 30 might also store other

information that may need to be accessed by all of the workstations 10.

The hardware configuration depicted in Fig. 1, of course, is exemplary only, and countless other hardware configurations could be used to implement the present invention. For example, different LAN topologies might be used. If is desirable to locate the various workstations 10 in more than one building or complex, a metropolitan area network ("MAN") configuration might be used; if it is desirable to locate the various workstations 10 in more than one city a wide area network ("WAN") configuration might be used. On the other hand, if it is desirable to implement the invention using only a single computer only, no network may be necessary at all, and the data records may simply be stored in the storage device 3 of a single workstation 10. Further still, irrespective of the particular configuration used, additional hardware and software, such as a modem connected to a telephone line or to a dedicated data line, might be incorporated to allow stored information to be accessed remotely.

One preferred embodiment of the present invention is a system and method which effectively allows individuals such as parents to prepay their child's college tuition. A company formed to administer the System (the "Administrating Company") will enlist several colleges and universities, preferably on the order of five hundred to one thousand or more colleges or universities across the country, to join as member institutions (the "Institutions"), and will maintain in a computer database a data record corresponding to each Institution. Each Institution's data record may include such information as the Institution's name, an Institution identification number, the location or locations of the Institution, the tuition it presently

charges for a year of education, the Institution's tuition history, its telephone numbers, facsimile numbers, electronic mail addresses and the like. Each Institution's data record may further include

5 statistical information describing the historical make-up of the Institution's student body, particularly with respect to factors such as, academic performance prior to admission, scholastic aptitude test ("SAT") scores, declared majors, geographic origin, gender, ethnicity,

10 religion, parents' education, and other factors which will aid in determining how likely a given child is to ultimately attend that Institution.

The Administrating Company will also create and

15 maintain in a computer database a data record for each individual who participates in the System (a "Participant"). Each Participant's data record may include such information as the Participant's name, a Participant identification number, the Participant's

20 address, telephone and facsimile numbers, electronic mail address and the like, as well as the name of a Beneficiary (such as, for example, the name of a particular child of the Participant) which the Participant specifies. Each Participant's data record

25 may further include additional information concerning the Participant and/or the Beneficiary, particularly with respect to factors such as geographic locale, gender, ethnicity, religion, parents' education and other factors corresponding to the statistical

30 information in the Institutions' data records. In addition, Participant data records may be updated as the Beneficiary goes through life, with such information as academic performance, SAT scores, exhibited preference for a particular major, and other

35 factors corresponding to the statistical information in the Institutions' data records.

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- In the most basic form of the pre-paid college tuition embodiment, a Participant enrolling in the plan will enter into a contract with the Administrating Company whereby the Participant transfers to the Administrating
- 5 Company some sum of money (a "Premium"), and in return receives from the Administrating Company a call option giving the Participant the right to purchase, at some point in the future, a specified measure of educational services for the Beneficiary from any one of the
- 10 Institutions for a specified amount of money (the "Strike Price"). The choice of which Institution will actually provide the services is to be made at the sole discretion of the Participant, at the time the option is exercised. The option may be exercisable by the
- 15 Participant at any time following the execution of the Contract up to its expiration date, or alternatively may be exercisable only after some specified date (a "Maturity Date"). The salient details of this contract, such as the amount of the Premium paid, the
- 20 precise measure of educational services that may be purchased, the amount of the Strike Price, the Maturity Date and the date on which the option expires, will all become a part of the Participant's data record.
- 25 The option is preferably a deep-in-the-money option (a "DIM"), i.e., an option in which the Strike Price is very low in comparison to the Premium. For example, a Strike Price of one hundred dollars, ten dollars or even one dollar may correspond to a ten thousand dollar
- 30 Premium, with the measure of educational services that may be purchased at the Strike Price being roughly equivalent to the measure of educational services that could have been purchased for ten thousand dollars at the time the contract was executed. The precise
- 35 measure of services that each option will allow the participant to purchase will be decided by the Administrating Company, based upon the amount of money

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the Administrating Company needs to spend to purchase the forward contracts necessary to cover the options, as is discussed in greater detail below.

- 5 The measure of educational services that may be purchased at the Strike Price is preferably expressed in years of full-time enrollment, or fractions thereof. Alternatively, it may be expressed in terms of credit hours. To account for the fact that each of the
- 10 various Institutions charge different amounts for the same measure of education, the contract may specify, for each member Institution, a separate and distinct measure of educational services that may be purchased. For example, the contract may specify that the
- 15 Participant has an option to purchase one-year of education at a first Institution, one-half of a year of education at a second, more expensive Institution, or two years of education at a third, less expensive Institution, with the choice being made by the
- 20 Participant at the time the option is exercised. For each Institution, however, the precise measure of education that may be purchased will correspond roughly to the measure of education that could have been purchased for the Premium amount at the time the
- 25 contract was executed. In any event, all of this information will become part of the Participant's data record.

- An alternative embodiment of the present invention
- 30 addresses the issue of different Institutions charging different tuition in the following way: The measure of education that may be purchased is expressed in the contract as a year or a fraction of a year at a hypothetical normalized Institution, and an adjustment
- 35 factor is assigned to each of the actual Institutions to reflect that Institution's deviation from the hypothetical norm. For example, the adjustment factor

of an Institution at which the tuition is higher than the hypothetical normalized Institution might be 1.25; the adjustment factor of an Institution at which the tuition is lower than the hypothetical normalized Institution might be .75; and the adjustment factor of an Institution at which the tuition is the same as the hypothetical normalized Institution might be 1.00.

The actual measure of education at a particular Institution which the Participant may purchase at the Strike Price when the option is exercised can then be calculated by dividing the measure of educational services that may be purchased at the normalized Institution by the Institution's adjustment factor.

With this approach, of course, all relevant information, such as the amount of normalized services that may be purchased and the individual Institution's adjustment factors at the time the contract was executed are also stored in the Participant's data record.

In practice, most Participants will want to pay smaller Premiums to the Administrating Company over a relatively long span of time, rather than paying one large Premium. For example, a typical Participant may want to pay one Premium per year over a span of five, ten or even fifteen years or more, as their Beneficiary child grows from infancy, through childhood, through adolescence, and becomes old enough to attend college.

Other Participants may find it even easier to make one Premium payment each month over that time span, so that the payments parallel the payments of other bills, such as rents, mortgage payments, auto loan or lease payments, utility payments and the like.

One way to address this practicality is as follows: each time a Premium is paid, the Participant and the

Administrating Company will enter into a new contract whereby the Participant obtains a new option to purchase, at some point in the future, another specified measure of educational services for the

5 Beneficiary from any one of the Institutions for a Strike Price. With respect to this new contract, the precise measure of services will be roughly equivalent to the measure of services that could have been

10 contract was executed. Note that it is quite possible that tuition at some or all of the Institutions will have changed (in most cases risen, although in some cases dropped) since the last time the Participant paid a Premium and received an option, so that the measure

15 of services which the Participant may purchase under the new option may well be different (in most cases smaller, although in some cases greater) than the measure that may be purchased under the old option, even though the same Premiums were paid for each.

20 Thus the new contract must specify for each institution the precise measure of educational services which the Participant is being given the option to purchase. Similarly, if the alternative embodiment discussed

25 above is used, the contract must specify the measure of normalized services that may be purchased, and the adjustment factors for each Institution that are pertinent to that option. In any event, all of the salient details of each new contract as it is entered

30 into will become a part of the Participant's data record.

It may be impracticable for the Administrating Company and the Participant to actually execute a new contract

35 each and every time a Premium is paid, which may be as often as once every month or more. Accordingly, in one embodiment of the present invention, the Administrating

As the Administrating Company enrolls Participants and
30 accumulates Premiums over a set time period (such as,
for example, over a ninety day time period), it places
the Premiums in a managed fund that invests in low-risk
securities to preserve the capital. At the end of the
set time period, the Administrating Company will use
35 the accumulated Premiums to execute forward contracts
with the Institutions, whereby in return for a cash
payment an Institution agrees to provide, at some point

- in the future, a specified amount of educational services. Preferably, each Institution will be required to carry some type of bond or similar instrument to insure the Administrating Company against
- 5 a circumstance where the Institution cannot deliver on its obligations, such as circumstances where an Institution goes out of business and the like. In any event, the salient details of these forward contracts, such as the amount of the cash payment and the precise
- 10 amount of educational services (again preferably expressed in terms of years of full-time enrollment or fractions thereof), will become a part of the Institution's data record.
- 15 The forward contract may require that the Institution provide the educational services at any time following the execution of the Contract, or alternatively may be require that the Institution provide such services only after some specified date. In either case, this
- 20 information will also become a part of the Institution's data record.

- The variety (in terms of breadth of Institutions) and magnitude (in terms of amount of educational services
- 25 contracted for) of the forward contracts entered into by the Administrating Company should be sufficient to meet or exceed the expected future demand for educational services at specific Institutions from the aggregate of the Participants. In this manner, the
- 30 entering into these forward contracts by the Administrating Company converts the Participants' "naked" options (i.e., options in which the option writer does not own the underlying security position) to "covered" options (i.e., options in which the option
- 35 writer does own the underlying security position), thereby greatly reducing the risk to the Participants.

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A determination process that predicts the total measure of educational services that will be required from each Institution by the aggregate of the Participants will now be described. Generally speaking, this

5 determination process is carried out by examining the nature of the student body who has historically attended each Institution, particularly with respect to a set of predetermined categories, and examining the nature of each named Beneficiary with respect to those
10 categories. These data are then compared to determine how likely each Beneficiary is to attend each Institution, and then to determine how much education each Beneficiary will require from each Institution, based upon the likelihood that the Beneficiary will
15 attend a given Institution and the total measure of educational services that has been promised to him. When these results are totalled for the aggregate of the Participants, a meaningful indication of the measure of educational services needed from each
20 Institution is obtained.

In one embodiment of the present invention, a table approach is used to carry out this determination process. A flow chart setting forth this embodiment is
25 illustrated in Fig. 2.

The process begins at step S0. In step S1, the process generates a set of tables A. A separate table is generated for every combination of Participant and
30 Institution, with each table $A[P_n, I_m]$ corresponding to a particular Participant P_n and a particular Institution I_m . Each table $A[P_n, I_m]$ includes a column YEAR for each year that the Participant P_n executed a contract with the Administrating Company; a column PREM for the
35 amount of Premium paid in connection with that contract; a column TUIT for the tuition at the Institution I_m for that year; a column EDUC for the

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measure of educational services at the Institution I_m corresponding to that contract (i.e. the measure of education promised to the Participants P_n in that contract); a column MDAT for the Maturity Date of that contract; and a column EDAT for the expiration date of the contract. The entries in the EDUC column are preferably expressed as years or fractional years of full-time enrollment. The table $A[P_n, I_m]$ may also include the total of the entries in the PREM column and the total of the entries in the EDUC column. All of the information required to generate the tables $A[P_n, I_m]$ is available from the Participants' data record. An example of such a table $A[P_1, I_1]$ is illustrated below:

15

Table A:

	YEAR	PREM	TUIT	EDUC	MDAT	EDAT
	1995	\$ 3,000	\$10,000	.3000	2004	2025
20	1996	\$ 2,500	\$10,500	.2381	2005	2026
	1997	\$ 4,500	\$11,025	.4082	2005	2027
	1998	\$ 1,200	\$11,578	.1037	2006	2028
	1999	\$ 6,000	\$12,155	.4936	2006	2029
25	TOTAL	\$17,200		1.5435		

Next, in step S2, the process generates a set of tables B. A separate table is generated for every combination of Participant and Beneficiary, with each table $B[P_n, I_m]$ corresponding to a particular Participant P_n and Institution I_m . Each table $B[P_n, I_m]$ includes a column YEAR for each year from the present year to at least the year of expiration of the latest to expire contract; a column AGE for the age of the named Beneficiary in the given year; and a column MATU for the total measure of educational services at the

Institution I_m corresponding to all contracts that will be matured and unexpired in that year. All of this information can be readily ascertained from the table $A[P_n, I_m]$.

5

- Each table $B[P_n, I_m]$ further includes a column AVAILED for the available measure of educational services at the Institution I_m for the given year. Each entry for the AVAILED column is calculated as follows: zero if
- 10 MATU for that year is zero, or else the value of AVAILED for the preceding year, less the expected measure of educational services redeemed in the preceding year (from the EXPED column, to be described below), plus the greater of zero and the difference
- 15 between the entries in the current year's MATU column and the preceding year's MATU column.

- Each table $B[P_n, I_m]$ further includes a PENROLL column for the probability of the named Beneficiary enrolling
- 20 in any college that year. This information is available from U.S. Government calculated statistics, based on the Beneficiary's age. Each table $B[P_n, I_m]$ further includes a EXPED column for the expected measure of educational services that the Participant P_n
 - 25 will redeem that year, calculated by multiplying PENROLL by AVAILED for the present year; and a CUM column for the cumulative total of all entries in the EXPED column, calculated by adding the entry in the EXPED column for the present year to entry in the CUM
 - 30 for the preceding year. It will be understood that the entries in the EXPED column represent the expected measure of educational services that the Participant P_n will redeem that year, taking into account the probability of the Beneficiary enrolling in college and
 - 35 assuming that the enrollment will be at Institution I_m . This figure will be modified later by the probability of the Beneficiary B_n attending the particular

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Institution I_m , to obtain a predicted total measure of education that the Participant P_n will require from Institution I_m .

- 5 An example of a table $B[P_1, I_1]$, corresponding to the prior example for the table $A[P_1, I_1]$ is set forth below:

Table B:

10

	YEAR	AGE	MATU	AVAILED	PENROLL	EXPED	CUM
15	1999	12	0.0000	0.0000	0.0001%	0.0000	0.0000
	2000	13	0.0000	0.0000	0.0001%	0.0000	0.0000
	2001	14	0.0000	0.0000	0.0001%	0.0000	0.0000
	2002	15	0.0000	0.0000	0.0010%	0.0000	0.0000
	2003	16	0.0000	0.0000	0.0100%	0.0000	0.0000
20	2004	17	0.3000	0.3000	10.0000%	0.0300	0.0300
	2005	18	0.9463	0.9163	65.0000%	0.5956	0.6256
	2006	19	1.5435	0.9180	80.0000%	0.7344	1.3599
	2007	20	1.5435	0.1836	95.0000%	0.1744	1.5344
	2008	21	1.5435	0.0092	80.0000%	0.0073	1.5417
25	2009	22	1.5435	0.0018	65.0000%	0.0012	1.5429
	2010	23	1.5435	0.0006	25.0000%	0.0002	1.5431
	2011	24	1.5435	0.0005	10.0000%	0.0000	1.5431
	2012	25	1.5435	0.0004	1.0000%	0.0000	1.5431
	2013	26	1.5435	0.0004	0.1000%	0.0000	1.5431
30	2014	27	1.5435	0.0004	0.1000%	0.0000	1.5431
	2015	28	1.5435	0.0004	0.1000%	0.0000	1.5431
	2016	29	1.5435	0.0004	0.1000%	0.0000	1.5431
	2017	30	1.5435	0.0004	0.1000%	0.0000	1.5431
	2018	31	1.5435	0.0004	0.1000%	0.0000	1.5431
	2019	32	1.5435	0.0004	0.1000%	0.0000	1.5431
	2020	33	1.5435	0.0004	0.1000%	0.0000	1.5431
	2021	34	1.5435	0.0004	0.1000%	0.0000	1.5431

	2022	35	1.5435	0.0004	0.1000%	0.0000	1.5431
	2023	36	1.5435	0.0004	0.1000%	0.0000	1.5431
	2024	37	1.5435	0.0004	0.1000%	0.0000	1.5431
	2025	38	1.5435	0.0004	0.1000%	0.0000	1.5431
5	2026	39	1.2435	0.0004	0.1000%	0.0000	1.5431
	2027	40	1.0054	0.0004	0.1000%	0.0000	1.5431
	2028	41	0.5973	0.0004	0.1000%	0.0000	1.5431
	2029	42	0.4938	0.0004	0.1000%	0.0000	1.5431
	2030	43	0.0000	0.0000	0.0000%	0.0000	1.5431
10	2031	44	0.0000	0.0000	0.0000%	0.0000	1.5431
	2032	45	0.0000	0.0000	0.0000%	0.0000	1.5431
	2033	46	0.0000	0.0000	0.0000%	0.0000	1.5431
	2034	47	0.0000	0.0000	0.0000%	0.0000	1.5431
	2035	48	0.0000	0.0000	0.0000%	0.0000	1.5431
15							

In step S3, the process determines for each Institution I_m a set of response factors RF_m for each of several sub-categories within each of several categories. The response factors RF_m for each sub-category will be used in determining the probability of a particular student enrolling in that Institution I_m , and is based on historical enrollment data provided by the Institution. The response factors should be such that, within each category, there is only one sub-category and hence one response factor that applies to any specified Beneficiary.

Some examples of useful categories and sub-categories are as follows: A category GPA_m describes the make-up of the student body of Institution I_m with respect to the students' overall grade point averages ("GPAs") in high school, and might include a sub-category for each of several ranges of GPAs (such as, for example, 3.76-4.00; 3.51-3.75; 3.26-3.50; 3.01-3.25 . . . 0.00 - 0.25), representing the proportion of students falling

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into each range. A category $RANK_m$ describes the make-up of the student body of Institution I_m with respect to the students' ranks in high school, and might include a sub-category for each of several ranges of class rankings (such as, for example, top 1%; top 1-5%; top 6-10%; top 11-20%; top 21-30% . . . top 91-100%), representing the proportion of students falling into each range. A category SAT_m describes the make-up of the student body of Institution I_m with respect to the students' performance on the SAT college entrance examination, and might include a sub-category for each of several ranges of SAT scores (such as, for example, 776-800; 751-775; 726-750; 701-725 . . . 200-225), representing the proportion of students falling into each range. If desirable, separate categories for math SAT scores and verbal SAT might also be used.

Another useful category is $MAJOR_m$, which describes the make-up of the student body with respect to declared majors, and might include a sub-category for each of several majors, such as, for example, $ENGINEERING_m$ (any engineering major), $SCIENCE_m$ (any science major), $ARTS_m$ (any fine or performance arts major), $BUSINESS_m$ (any business related major), etc., plus a sub-category $OTHER_m$ (any other major) and a sub-category for $UNDECLARED_m$ (major undeclared), each representing the proportion of students who have declared the particular major identified.

Other examples of useful categories and sub-categories are: A category $GENDER_m$ describes the gender make-up of the student body, and includes a sub-category $MALE_m$ representing the proportion of males and a sub-category $FEMALE_m$ representing the proportion of females. A category $GEOGRAPHY_m$ describes from where the student body originates, and might include a sub-category for each U.S. state (e.g. $NEW\ YORK_m$, $NEW\ JERSEY_m$, etc.)

- representing the proportion of students originating from that state and a sub-category FOREIGN_m representing the proportion of students of foreign origin. A category ETHNICITY_m describes the ethnic make-up of the student body, and might include a sub-category WHITE_m representing the proportion of white students, a sub-category BLACK_m representing the proportion of black students, a sub-category ASIAN_m representing the proportion of Asian students, a sub-
- 5 category HISPANIC_m representing the proportion of Hispanic students and a sub-category OTHER_m representing a proportion of students of other ethnic origins. A category RELIGION_m describes the religious make-up of the student body, and might include a sub-
- 10 category CATHOLIC_m representing the proportion of Catholic students, a sub-category PROTESTANT_m representing the proportion of Protestant students, a sub-category JEWISH_m representing the proportion of Jewish students, a sub-category ISLAM_m representing the
- 15 proportion of Islamic students, a sub-category OTHER_m representing the proportion of students of other religions and a sub-category NONE_m representing the proportion of students of no specified religion.
- 20
- 25 Still other useful categories and sub-category are: A category PARENTSED_m describes the make-up of the student body with respect to the parent's education, and might include a sub-category DOCTORATE_m representing the proportion of students having a parent
- 30 who has received some type of doctorate degree, a sub-category GRAD_m representing the proportion of students having a parent who has received a graduate, non-doctorate degree, a sub-category BACH_m representing the proportion of students having a parent who has
- 35 received a bachelor's degree only, a sub-category SOME_m representing the proportion of students having a parent who has some college but not at least a bachelor's

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degree and a sub-category $NONE_m$ representing the proportion of students having no parent who has attended college. A category $PARENTSALUM_m$ which describes the extent to which the parents of the student body have graduated from that Institution I_m , and might include a sub-category $LEGACY_m$ representing the proportion of the students whose parents are alumni, and a sub-category $NONLEGACY_m$ representing the proportion of students whose parents are not.

10

Of course, it will be readily understood that the categories above and the sub-categories within each category are exemplary only, and not an exhaustive listing. Other sub-categories within the categories given above might be added, in order to describe the make-up of the student bodies with respect to those categories with even greater specificity; and other categories might be added, each with their own sub-categories, to describe other useful characteristics of the student bodies. Conversely, the determination process might be simplified by deleting some of the categories above, or by dividing some of the categories into fewer sub-categories (such as, for example, dividing the GPA category into only two sub-categories one for GPA's greater than 3.0 and one for GPA's less than 3.0).

Some examples of additional categories which might be useful include categories that relate to measured intelligence quotient ("IQ"), participation in varsity sports, participation in the band or orchestra, parental occupations, and the like.

The response factors RF_m for each sub-category in each category C_x for each Institution I_m are calculated in step S3 in the following manner. For each category C_x , a table $C[C_x]$ is generated which includes a column

INSTIT with a entry for each Institution I_m and a column ENROLL with an entry representing the total historical enrollment for each Institution I_m . The entries in the ENROLL column are summed, and the

5 entries for the next column ENFACT are calculated by dividing the corresponding entry in the ENROLL column by the sum of the ENROLL column, so that the entries in the ENFACT are enrollment factors representing the percentage that the historical enrollment of the given

10 Institution I_m is of the total enrollment in all Institutions. The ENFACT column will sum to one-hundred percent. Then, a raw data column RAW for each sub-category is calculated, with the entries being the raw number of students from the historical total pool

15 of the corresponding Institution I_m who fit the particular sub-category. Each of the RAW columns is summed. Then, a percentage data column % for each sub-category is calculated, with the entries being the entry from the RAW column for the corresponding sub-

20 category and Institution I_m , divided by the total of the RAW column for the corresponding sub-category. Each of the % columns will sum to one-hundred percent. Finally, a response factor column RF is calculated for each sub-category, with the entries being calculated by

25 dividing the entry from the % column for the corresponding sub-category and Institution I_m by entry from the ENFACT column for the corresponding Institution I_m . These response factors will be used in determining the predicted total measure of education

30 that each Participant P_m will require from each Institution I_m , as set forth in greater detail below.

An example of a table C is set forth below. This example corresponds to forty Institutions 1 through 40

35 and a category GENDER, which has two sub-categories MALE and FEMALE:

Table C1:

	INSTIT	ENROLL	ENFACT	RAW MALE	RAW FEMALE	% MALE	% FEMALE	RF MALE	RF FEMALE
5	1	1,346	3.58%	916	430	4.80%	2.32%	1.34	0.65
	2	1,810	4.81%	569	1,241	2.98%	6.70%	0.62	1.39
	3	849	2.26%	697	152	3.65%	0.82%	1.62	0.36
	4	392	1.04%	12	380	0.06%	2.05%	0.06	1.97
	5	1,556	4.14%	390	1,166	2.04%	6.30%	0.49	1.52
10	6	1,627	4.33%	118	1,509	0.62%	8.15%	0.14	1.88
	7	892	2.37%	774	118	4.06%	0.64%	1.71	0.27
	8	1,627	4.33%	1,591	36	8.34%	0.19%	1.93	0.04
	9	1,766	4.70%	419	1,347	2.20%	7.27%	0.47	1.55
	10	951	2.53%	208	743	1.09%	4.01%	0.43	1.59
15	11	194	0.52%	186	8	0.98%	0.04%	1.89	0.08
	12	69	0.18%	19	50	0.10%	0.27%	0.54	1.47
	13	1,311	3.49%	1,030	281	5.40%	1.52%	1.55	0.44
	14	147	0.39%	69	78	0.36%	0.42%	0.93	1.08
	15	67	0.18%	28	39	0.15%	0.21%	0.82	1.18
20	16	899	2.39%	197	702	1.03%	3.79%	0.43	1.59
	17	311	0.83%	185	126	0.97%	0.68%	1.17	0.82
	18	1,778	4.73%	1,046	732	5.48%	3.95%	1.16	0.84
	19	1,289	3.43%	841	448	4.41%	2.42%	1.29	0.71
	20	340	0.90%	309	31	1.62%	0.17%	1.79	0.19
25	21	1,783	4.74%	1,779	4	9.33%	0.02%	1.97	0.00
	22	523	1.39%	85	438	0.45%	2.37%	0.32	1.70
	23	612	1.63%	125	487	0.66%	2.63%	0.40	1.62
	24	1,784	4.75%	484	1,300	2.54%	7.02%	0.53	1.48
	25	1,472	3.92%	1,278	194	6.70%	1.05%	1.71	0.27
30	26	1,081	2.88%	286	795	1.50%	4.29%	0.52	1.49
	27	1,350	3.59%	903	447	4.73%	2.41%	1.32	0.67
	28	740	1.97%	366	374	1.92%	2.02%	0.97	1.03
	29	722	1.92%	252	470	1.32%	2.54%	0.69	1.32
	30	1,034	2.75%	592	442	3.10%	2.39%	1.13	0.87
	31	271	0.72%	105	166	0.55%	0.90%	0.76	1.24

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5	32	540	1.44%	254	286	1.33%	1.54%	0.93	1.08
	33	1,106	2.94%	41	1,065	0.21%	5.75%	0.07	1.95
	34	600	1.60%	471	129	2.47%	0.70%	1.55	0.44
	35	865	2.30%	643	222	3.37%	1.20%	1.47	0.52
	36	1,037	2.76%	466	571	2.44%	3.08%	0.89	1.12
	37	1,288	3.43%	714	574	3.74%	3.10%	1.09	0.90
	38	66	0.18%	18	48	0.09%	0.26%	0.54	1.48
	39	13	0.03%	8	5	0.04%	0.03%	1.21	0.78
	40	1,488	3.96%	602	886	3.16%	4.78%	0.80	1.21
10		37,596	100.00%	19,067	18,520	100.00%	100.00%		

Another example of a table C is set forth below. This example corresponds to the same forty Institutions 1 through 40 and a category GPA, which has two subcategories >3.0 and <3.0:

Table C2:

20	INSTIT	ENROLL	ENFACT	RAW > 3.0	RAW < 3.0	% > 3.0	% < 3.0	RF > 3.0	RF < 3.0
	1	1,346	3.58%	1,218	128	6.62%	0.67%	1.85	0.19
	2	1,810	4.81%	410	1,400	2.23%	7.30%	0.46	1.52
	3	849	2.26%	107	742	0.58%	3.87%	0.26	1.71
	4	392	1.04%	331	61	1.80%	0.32%	1.72	0.30
25	5	1,556	4.14%	254	1,302	1.38%	6.78%	0.33	1.64
	6	1,627	4.33%	968	659	5.26%	3.43%	1.22	0.79
	7	892	2.37%	561	331	3.05%	1.72%	1.28	0.73
	8	1,627	4.33%	1,499	128	8.14%	0.67%	1.88	0.15
	9	1,766	4.70%	813	953	4.42%	4.97%	0.94	1.06
30	10	951	2.53%	390	561	2.12%	2.92%	0.84	1.16
	11	194	0.52%	48	146	0.26%	0.76%	0.51	1.47
	12	69	0.18%	69	-	0.37%	0.00%	2.04	-
	13	1,311	3.49%	845	466	4.59%	2.43%	1.32	0.70
	14	147	0.39%	97	50	0.53%	0.26%	1.35	0.67
35	15	67	0.18%	45	22	0.24%	0.11%	1.37	0.64

5	16	899	2.39%	247	642	1.34%	3.40%	0.56	1.42
	17	311	0.83%	1	310	0.01%	1.62%	0.01	1.95
	18	1,778	4.73%	1,492	286	8.11%	1.49%	1.71	0.32
	19	1,289	3.43%	338	951	1.84%	4.96%	0.54	1.45
	20	340	0.90%	173	167	0.94%	0.87%	1.04	0.96
10	21	1,783	4.74%	949	834	5.16%	4.35%	1.09	0.92
	22	523	1.39%	134	389	0.73%	2.03%	0.52	1.46
	23	612	1.63%	567	45	3.08%	0.23%	1.89	0.14
	24	1,784	4.75%	237	1,547	1.29%	8.06%	0.27	1.70
	25	1,472	3.92%	907	565	4.93%	2.94%	1.26	0.75
15	26	1,081	2.88%	751	330	4.08%	1.72%	1.42	0.60
	27	1,350	3.59%	1,036	314	5.63%	1.64%	1.57	0.46
	28	740	1.97%	444	296	2.41%	1.54%	1.23	0.78
	29	722	1.92%	478	244	2.60%	1.27%	1.35	0.66
	30	1,034	2.75%	188	846	1.02%	4.41%	0.37	1.60
20	31	271	0.72%	154	117	0.84%	0.61%	1.16	0.85
	32	540	1.44%	435	105	2.36%	0.55%	1.65	0.38
	33	1,106	2.94%	652	454	3.54%	2.37%	1.20	0.80
	34	600	1.60%	230	370	1.25%	1.93%	0.78	1.21
	35	865	2.30%	204	661	1.11%	3.44%	0.48	1.50
25	36	1,037	2.76%	520	517	2.83%	2.69%	1.02	0.98
	37	1,288	3.43%	73	1,215	0.40%	6.33%	0.12	1.85
	38	66	0.18%	56	10	0.30%	0.05%	1.73	0.30
	39	13	0.03%	13	-	0.07%	0.00%	2.04	-
	40	1,488	3.96%	471	1,017	2.56%	5.30%	0.65	1.34
		37,596	100.00%	18,405	19,191	100.00%	100.00%		

30 In step S4, a set of tables D is generated, consisting
of one table D[P_n] for each Participant P_n. Each table
includes the same INSTIT, ENROLL and ENFACT columns
that are in the tables C, plus a column PROB
representing the probability that the Beneficiary B_n of
the Participant P_n will attend each Institution. Each
35 entry in the PROB column is calculated by multiplying
the corresponding entry from the ENFACT column by the

- corresponding entry from one and only one of the response factor RF columns from as many of the tables $C[C_x]$ as may be applicable to the Beneficiary B_n at the present stage of his life. The particular response
- 5 factor RF that is chosen from each table $C[C_x]$ is the response factor RF which corresponds to the sub-category that describes the Beneficiary B_n . If a particular table $C[C_x]$ relates to a category C_x which is inapplicable to a particular Beneficiary B_n at his
- 10 present stage of life (such as, for example, the case of a table corresponding to the category GPA and a three-year old Beneficiary), then no response factor is taken from that table $C[C_x]$.
- 15 An example of a table D is set forth below. This example corresponds to the same forty Institutions 1 through 40 given above, and a particular Beneficiary who is male and has a present GPA greater than 3.0, and assumes a very simplified model in which only two
- 20 categories GENDER and GPA are used in the determination process. In this example, the entries in the PROB column were calculated by multiplying the corresponding entry in the ENFACT column by the corresponding entry in the RF MALE column of the GENDER table and then by
- 25 the corresponding entry in the RF >3.0 column in the GPA table:

Table D:

30	INSTIT	ENROLL	ENFACT	PROB
	1	1,346	3.58%	8.88%
	2	1,810	4.81%	1.38%
	3	849	2.26%	0.94%
	4	392	1.04%	0.11%
35	5	1,556	4.14%	0.68%
	6	1,627	4.33%	0.75%

5	7	892	2.37 %	5.21 %
	8	1,627	4.33 %	15.70 %
	9	1,766	4.70 %	2.07 %
	10	951	2.53 %	0.91 %
	11	194	0.52 %	0.49 %
10	12	69	0.18 %	0.20 %
	13	1,311	3.49 %	7.11 %
	14	147	0.39 %	0.49 %
	15	67	0.18 %	0.20 %
	16	899	2.39 %	0.58 %
15	17	311	0.83 %	0.01 %
	18	1,778	4.73 %	9.40 %
	19	1,289	3.43 %	2.36 %
	20	340	0.90 %	1.68 %
	21	1,783	4.74 %	10.14 %
20	22	523	1.39 %	0.23 %
	23	612	1.63 %	1.24 %
	24	1,784	4.75 %	0.69 %
	25	1,472	3.92 %	8.43 %
	26	1,081	2.88 %	2.13 %
25	27	1,350	3.59 %	7.42 %
	28	740	1.97 %	2.35 %
	29	722	1.92 %	1.79 %
	30	1,034	2.75 %	1.15 %
	31	271	0.72 %	0.64 %
30	32	540	1.44 %	2.19 %
	33	1,106	2.94 %	0.26 %
	34	600	1.60 %	1.93 %
	35	865	2.30 %	1.62 %
	36	1,037	2.76 %	2.50 %
	37	1,288	3.43 %	0.43 %
	38	66	0.18 %	0.16 %
	39	13	0.03 %	0.09 %

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40	1,488	3.96%	2.04%
	37,596	100.00%	

5 Next, in step S5, a set of tables E is generated. A
separate table is generated for each combination of
Participant and Institution, with each table $E[P_n, I_m]$
corresponding to a particular Participant P_n and
Institution I_m . Each table $E[P_n, I_m]$ includes the YEAR
10 and EXPED columns from table $B[P_n, I_m]$, and a third
column PREDED representing the actual prediction of how
much education Participant P_n will require from
Institution I_m . The entries for the PREDED column are
calculated simply by multiply the corresponding entry
15 in the EXPED column by the entry in the PROB column
from the table $D[P_n]$ for the corresponding Institution
 I_m .

An example of a table $E[P_1, I_1]$, corresponding to the
20 prior example for the tables $A[P_1, I_1]$ and $B[P_1, I_1]$ and
assuming a hypothetical PROB of .15%, is set forth
below:

Table E:

25

	YEAR	EXPED	PREDED
	1999	0.0000	0.0000
	2000	0.0000	0.0000
	2001	0.0000	0.0000
30	2002	0.0000	0.0000
	2003	0.0000	0.0000
	2004	0.3000	0.0000
	2005	0.5958	0.0009
	2006	0.7344	0.0011
35	2007	0.1744	0.0003

	2008	0.0073	0.0000
	2009	0.0012	0.0000
	2010	0.0002	0.0000
	2011	0.0000	0.0000
5	2012	0.0000	0.0000
	2013	0.0000	0.0000
	2014	0.0000	0.0000
	2015	0.0000	0.0000
	2016	0.0000	0.0000
10	2017	0.0000	0.0000
	2018	0.0000	0.0000
	2019	0.0000	0.0000
	2020	0.0000	0.0000
	2021	0.0000	0.0000
15	2022	0.0000	0.0000
	2023	0.0000	0.0000
	2024	0.0000	0.0000
	2025	0.0000	0.0000
	2026	0.0000	0.0000
20	2027	0.0000	0.0000
	2028	0.0000	0.0000
	2029	0.0000	0.0000
	2030	0.0000	0.0000
	2031	0.0000	0.0000
25	2032	0.0000	0.0000
	2033	0.0000	0.0000
	2034	0.0000	0.0000
	2035	0.0000	0.0000

30

In step S6, a set of tables F is generated to determine the total predicted measure of education that will be required from each Institution. A separate table is generated for each Institution, with each table F[I_m]

corresponding to a particular Institution I_m . Each table $F[I_m]$ includes a YEAR column for as many years as necessary, and a column for each Participant P_n . The entries in each column P_n are taken from the entries in the PREDED column from table $E[P_n, I_m]$ for the corresponding years. Each table $F[I_m]$ further includes a TOTAL column, the entries for which are calculated by summing the entries in each column P_n for each given year.

10

In step S7, a single table G is generated which includes a column YEAR for as many years as necessary and a column for each Institution I_m . The entries in each column I_m are taken from the entries in the TOTAL column from table $F[I_m]$ for the corresponding years. The table G further includes a TOTAL column, the entries for which are calculated by summing the entries in each column I_m for each given year. In this way, the table G represents the predicted total measure of education that will be required from each Institution, as well as the predicted total measure of education that will be required from all Institutions.

20

In step S8, an inventory table H is generated which includes a column YEAR for as many years as necessary and a column for each Institution I_m . The entries in each column I_m represent the measure of education that becomes available to the Administrrating Company from the Institution I_m as of that year, as a result of contracts that the Administrrating Company has executed with the Institution I_m . This information is available from the individual Institution's data records. The table H further includes a TOTAL column, the entries for which are calculated by summing the entries in each column I_m for each given year. In this way, the table H represents how much education will be available to cover Participant requirements, as well as the total

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measure of education that will be available from all
Institutions.

In step S9, a table I is generated by subtracting table
5 H from table G, so that the information therein
represents the shortfall or surplus, based on the
calculated predictions, of educational services at each
Institution. The resultant table I may then be
examined by the Administrating Company in making its
10 determinations as to what contracts should be executed
with what Institutions. Note that because the
information in Table I is based on predictions, which
by their nature may not be one hundred percent
accurate, the Administrating Company will not
15 necessarily strictly adhere to the results therein, but
instead may use it as a guide in making its contracting
decisions. For example, the Administrating Company may
use an approach wherein it does not enter into any new
contracts with institutions as to which there is
20 surplus of education, and enters into contracts with
Institutions as to which there is a shortfall of
education sufficient to cover the amount of the
shortfall plus some additional amount, such as for
example an additional five or ten percent. By way of
25 another example, the Administrating Company may use an
approach wherein part of any surplus of education that
it may have is sold to third-parties, or is donated to
third-parties in the form of scholarships and the like.
Other approaches, of course, are possible as well, so
30 long as the contracting decisions are made in
accordance with the calculated predictions.

The determination process described above and depicted
in Fig. 2 can be repeated as frequently as desired,
35 such as for example annually, quarterly, monthly or
even daily. Preferably, the Participants will provide
the Administrating Company with updates concerning

As a Beneficiary comes closer to attending college, even more helpful information should be provided, such as a listing of specific Institutions the Beneficiary may be interested in attending, a listing of specific Institutions to which the Beneficiary has applied, a listing of specific Institutions to which the Beneficiary has been accepted and from which the Beneficiary has been rejected, and ultimately an identification of the specific school in which the Beneficiary will enroll. As this information is provided, the Administrating Company may then modify its tables to distribute the Beneficiaries' probability of enrollment among only those schools in which he is interested, to which he has applied, to which he has been accepted, and ultimately to which he will enroll. All of these updates will make the determination process even more accurate, and ultimately virtually one hundred percent accurate with respect to the given Beneficiary, and therefore more accurate overall.

When a named Beneficiary is ready to enroll in a certain Institution, the Participant may exercise all of the options (or part of the options) that have been acquired by requesting a voucher from the

- 5 Administrating Company the educational services which the Administrating Company has contracted to provide, and paying to the Administrating Company the requisite Strike Price or Strike Prices. Upon such a request, the Administrating Company will provide to the
- 10 Participant a voucher for the specified measure of services, preferably expressed in terms of years or fractional years at a specified Institution. Once a voucher for a certain measure of services has been provided, the Participant's data record is updated to
- 15 reflect that the Participant now has exercised his options (or part of his options, as the case may be), and now has options on a new, lesser measure of educational services (or no more options, as the case may be). The particular Institution's data record is
- 20 also updated to reflect that a voucher has been issued which when redeemed will require the Institution to actually provide a certain amount of educational services in fulfillment of one of the earlier entered into forward contracts with the Administrating Company.

25

When a voucher issued by the Administrating Company is presented to an Institution, the Institution will honor the voucher by providing to the Beneficiary the specified measure of educational services. Honoring

- 30 the voucher may take the form of, for example, enrolling the Beneficiary in the Institution as a full-time student for the specified amount of time, such as four years, three years, two years, one year or one semester. The Institution will then advise the
- 35 Administrating Company that it has honored a voucher in fulfillment of its obligations under a forward contract or contracts, or a portion thereof, and the

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Administrating Company will in turn update the Institution's data record accordingly.

In the above examples, the Participants receive from the Administrating Company promises to provide educational services at a future date in the form of an option, preferably a DIM option, to purchase those services; and the Administrating Company receives from the Institutions promises to deliver educational service at a future date in the form of a forward contract. It will be understood that other permutations of this arrangement are possible as well.

For example, in alternative embodiments of the present invention, the Administrating Company may enter into forward contracts with the Participant, whereby the Administrating Company contracts to provide the Participant with a specified amount of educational services at a future date, and may acquire options, preferably DIM options, from the Institutions which give the Administrating Company the right to purchase educational services at a future date at a Strike Price. In yet another alternative embodiment of the present invention, both the Participant and the Administrating Company and the Administrating Company and the Institutions enter into forward contract. In still another alternative embodiment of the present invention, both the Participant and the Administrating Company acquire options, preferably DIM options, to purchase educational services in the future.

Other variations to the above-described examples are possible as well. For example, the Administrating Company may allow a Participant to change the Beneficiary (such as, for example, from one child to another) by notifying the Administrating Company and paying a modest transaction fee. The Administrating

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Company would then change the name of the Beneficiary, and other data concerning the Beneficiary, in the Participant's data record. Alternatively, the Administrating Company may provide that no specific
5 Beneficiary need be named until the time of actual enrollment at a Institution. This alternative would give a greater amount of flexibility to the Participant, but would make it more difficult for the Administrating Company to determine the variety and
10 magnitude of the educational services that it must contract with the Institutions to provide, since it would have only general data relating to the Participant family (such as geographic data, ethnicity, religion, parental education and the like), and not
15 data relating to a specific future student (such as academic performance data, gender and the like).

It will be readily appreciated that the present invention has broad applicability beyond the prepaid
20 college tuition plan embodiment given as example above. For example, the present invention might be used to implement a prepaid tuition plan for graduate schools, or for private secondary schools, elementary schools or pre-kindergarten schools. Other applications include,
25 but are in no way limited to, a plan for prepaying for vacation or travel; a plan for prepaying for automobiles, boats, motorcycles, airplanes, recreation vehicles and the like; and a plan for prepaying for home furnishings; a plan for prepaying for medical
30 services, dental services and the like. As the present invention is applied to different environments, suitable categories must be selected which allow the measure of goods or services that will be required from each supplier by the aggregate of the Participants to
35 be predicted.

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WHAT WE CLAIM:

1. A method, to be administered by an administering entity, for allowing a plurality of participants to prepay for services or goods to be received at a later date from one of a plurality of specified providers, the method comprising the steps of:

executing contracts between the administering entity and each of the plurality of participants in which a contracting participant pays to the administering entity a cash amount and in return receives from the administering entity a promise to deliver at a future date a specified measure of services or goods, the services or goods to be provided by whichever of the plurality of specified providers the contracting participant selects;

determining, for each of the plurality of specified providers, a predicted total measure of services or goods that will be required from that provider by the aggregate of the plurality of participants; and

executing contracts between the administering entity and each of the plurality of specified providers in which the administering entity pays to a contracting provider a cash amount and in return receives from the contracting provider a promise to deliver a specified measure of services or goods.

2. A method according to claim 1, wherein the administering entity ascertains the measure of services or goods to be specified in each contract with a provider in accordance with the predicted total measure of services or goods that will be required from that provider.

3. A financial data processing system for allowing a plurality of participants to prepay for services or goods to be received at a later date from one of a plurality of specified providers comprising:

means for storing data regarding a plurality of contracts executed between an administering entity and each of the plurality of participants in which a contracting participant paid to the administering entity a cash amount and in return received from the administering entity a promise to deliver at a future date a specified measure of services or goods, the services or goods to be provided by whichever of the plurality of specified providers the contracting participant selects;

means for determining, for each of the plurality of specified providers, a predicted total measure of services or goods that will be required from that provider by the aggregate of the plurality of participants; and

means for storing data regarding a plurality of contracts executed between the administering entity and each of the plurality of specified providers in which the administering entity paid to a contracting provider a cash amount and in return received from the contracting provider a promise to deliver a specified measure of services or goods.

4. A financial data processing system according to claim 1, wherein the administering entity ascertains the measure of services or goods to be specified in each contract with a provider in accordance with the predicted total measure of services or goods that will be required from that provider.

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5. A financial data processing system for allowing a plurality of participants to prepay for services or goods to be received at a later date from one of a plurality of specified providers, the choice of which of the plurality of providers will deliver the services or goods being made by a participant at the time the goods and services are to be delivered:

a machine-readable storage devices which stores data indicating measures of services or goods for which each participant has prepaid and measures of services or goods which each provider has contracted to provide;

a processing circuit for determining, for each of the providers, a predicted total measure of services or goods that will be required from that provider by the aggregate of the plurality of participants.

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A method for allowing plural participants to prepay for services or goods to be received at a later date from

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FIG. 1

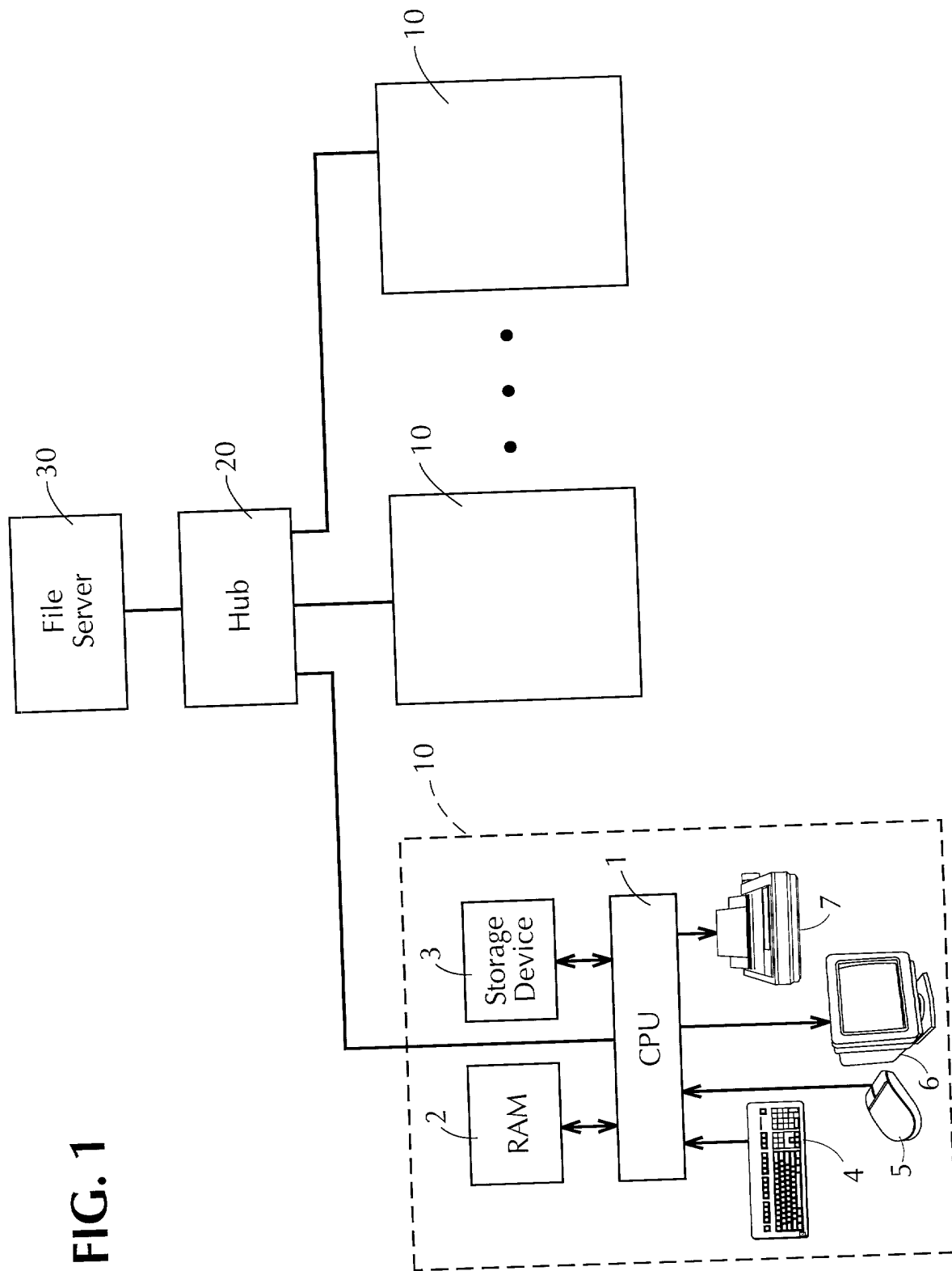
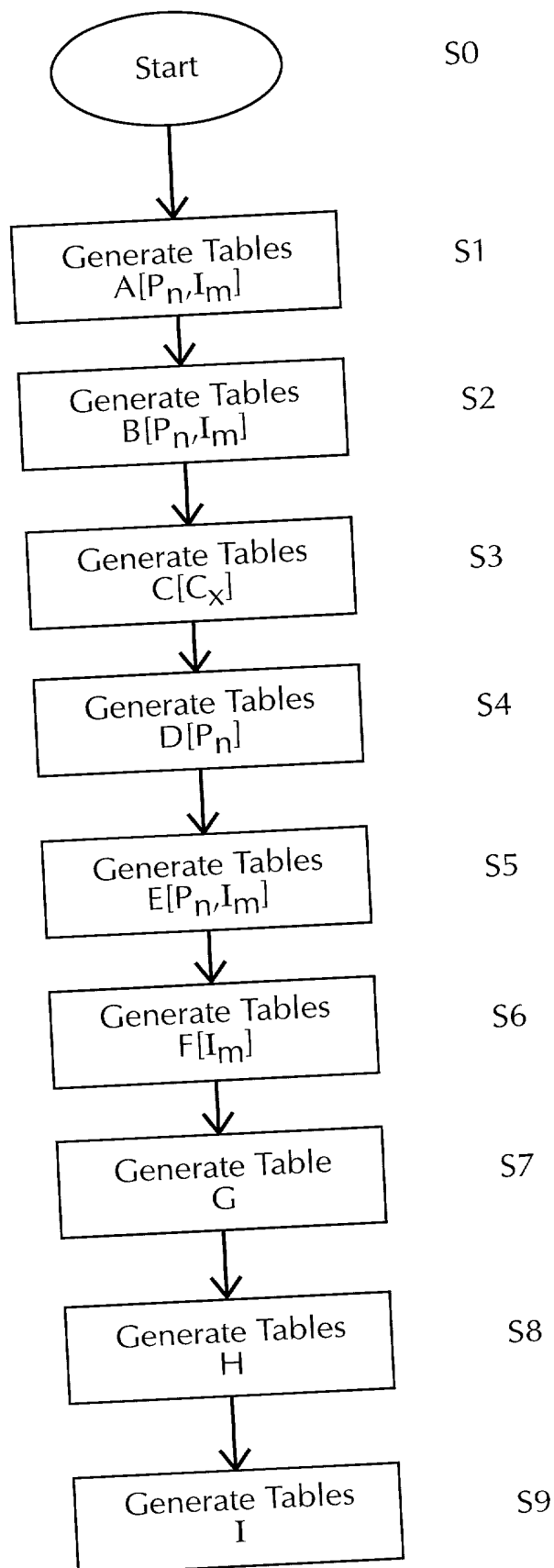


FIG. 2



**COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**
(Page 1)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled System and Method for Prepaying for Services or Goods to be Consumed at a Future Date

the specification of which ☒ is attached hereto ☐ was filed on _____ as United States Application No. or PCT International Application No. _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR §1.56.

I hereby appoint the practitioners associated with the firm and Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to the address associated with that Customer Number:

FITZPATRICK, CELLA, HARPER & SCINTO
Customer Number: 05514

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or First Inventor David Cincotta

Inventor's signature David E. Cincotta

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Post Office Address Same as Residence

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